

Pluto-Kuiper Belt (PKB) Mission Concept Study & Downselect

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Concept Study Overview

PKB Mission AO, Section 1.2 and 6.3.2

- 2 month concept study is amended to be 3 months
- Funding of \$450K (real year dollars)
- NASA will evaluate implementing details, including
 - any modifications to science objectives
 - proposed cost to NASA OSS
 - design details of experiment hardware
 - plans for mission implementation including technical and management
 - details of E/PO, SDB, and technology transfer plans

Relevant Documents

PKB Mission Program Library

- <http://centauri.larc.nasa.gov/pluto/pkblib.html>
- Criteria and Guidelines for the Phase A Concept Study
- Example of Mission Definition and Requirements Agreement
- Example of an International Agreement

Downselect 2001 Information

- <http://centauri.larc.nasa.gov/pluto/downselect.html>
- Downselect Guidelines updates
- Announcements regarding Downselection

Concept Study Report Evaluation

- Program Scientist, Denis Bogan, will be the overall Chair of the Evaluation Team
- LaRC/Brad Perry will Co-Chair & lead the TMCO evaluation
- Final reports must be delivered to NPRS nlt 9/18/01 4:30 p.m. EDT
 - Signed Original and 60 copies
 - No late changes or errata sheets, no exceptions
 - NPRS address and contact information in AO
- Site Visits will be discussed by Brad Perry later in this meeting

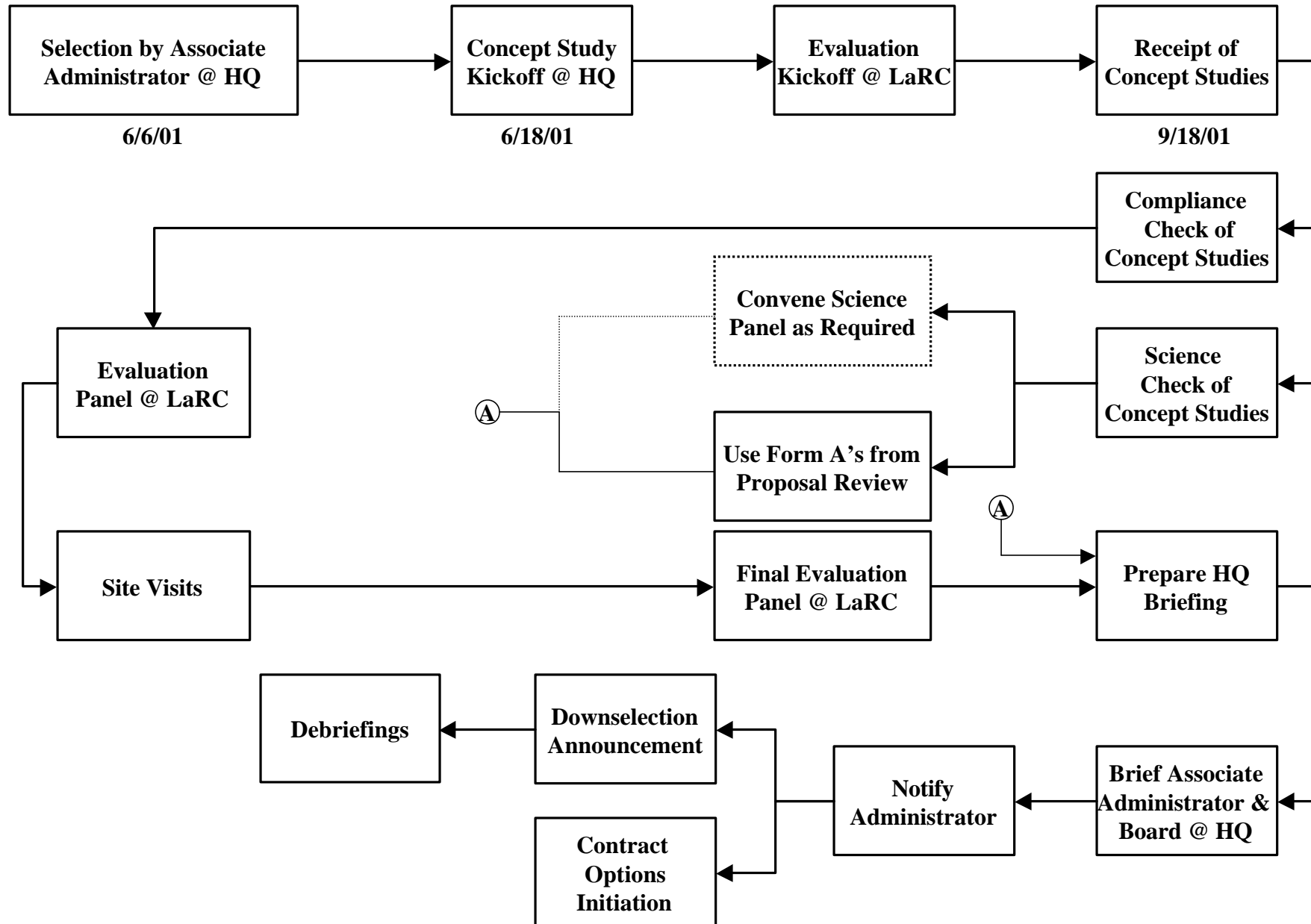
Concept Study Report Content

- **Selections were primarily based on Science Merit**
 - Unless Concept Study results demand it, Science should not change
 - Science section from Proposal **MUST** be repeated in this Report
 - Any and all Changes to be highlighted
 - Unless Science changes, Downselection will now emphasize implementation: Technical Merit and Feasibility and TMCO
- **Technical Merit and Feasibility**
 - Details of instrument strategy, sensitivities, and implementation are required
 - Block diagrams, instrument, and observation table should be updated with design details
 - Details of Data Management are also required including analysis, archiving, publication, and release to public

Evaluation Criteria

- **4 Evaluation Criteria for Concept Study (also AO §6.3.3, and reference to §6.2.1)**
 - Scientific Merit of Investigation: Not reevaluated unless there is a change made
 - Technical Merit and Feasibility of Science Implementation: Per Concept Study Guidelines
 - Feasibility of Implementation Scheme: Per Concept Study Guidelines and discussed in TMCO section of Briefing
 - Quality of Education/Public Outreach, New Technology, and Small, Disadvantaged Business Plans: Per Concept Study Guidelines and discussed in TMCO section of Briefing
- **Total Mission Cost to NASA**: This is equal to proposed cost and is not evaluated. Note: It will be a selection factor and cannot increase from proposed cost by more than 20% or exceed the total \$500M cost cap.

PKB Mission Downselect Evaluation Flow



Competition Conditions

- **“Blackout” after the Kickoff Meeting**
 - Communications after this meeting will be controlled
 - Technical and expert advice should be obtained directly from identified Points of Contact (POC’s)
 - All programmatic questions, including questions of policy, questions of interpretation, and questions of clarification, should come to HQ/Denis Bogan
 - Answers if warranted will be provided via PKB Mission Acquisition Program Homepage and emailed to all PI’s
 - Site visit details will be coordinated with LaRC/Brad Perry